

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

C. Amendments to the Claims.

1. (Currently Amended) A voice and data network, comprising:

a) a telephone and a computer connected to a voice and data module (VDM)
5 device, the telephone and computer having unique assigned network addresses with
respect to one another,

b) a plurality of said VDM devices connected to a plurality of telephone wires in a building,

c) said plurality of telephone wires connected together to provide a telephone
10 network in which only one phone can communicate on a given line at one time,

d) a link to wide area network (LTW) connects said telephone network to a Public Service Telephone Network (PSTN) and an Internet Service Provider (ISP),

e) said LTW and said plurality of said VDM devices communicate together over said telephone network using communication addresses assigned to said LTW and each
15 VDM of said plurality of VMD devices.

2. (Currently Amended) The voice and data network of claim 1, wherein each of said plurality of VDM devices includes at least a first connection for a telephone and a second connection for a personal computer~~connect a plurality of telephones and a plurality of personal computers to a plurality of data signals and a plurality of voice signals on said telephone network operating concurrently.~~
20

3. (Currently Amended) The voice and data network of claim 1, wherein said LTW and said plurality of VDM devices communicate over said network of telephone wires by means of Token in Ethernet Protocol technology.
25

4. (Original) The voice and data network of claim 1, wherein telephone service is provided to said building from said ISP and said PSTN.

5. (Currently Amended) The voice and data network of claim ~~12~~, wherein ~~more than one LTW is connected to said telephone network~~ each VDM device is connected to the telephone wires by an ordinary phone jack.
30

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

6. (Currently Amended) A method for communicating between network elements in a voice and data network, comprising:

5 a) monitoring a communication network by a first voice and data module (VDM) for a call from a second VDM and a call from a link to a wide area network (LTW) connected to said communication network,

10 b) monitoring a first phone and a first computer attached to said first VDM for an outgoing call to a destination containing a second phone and second computer connected to said second VDM, or an outside phone and an outside computer network through said LTW, the first phone having a first identification (ID) value and first computer having a second ID value different from the first ID value,

15 c) detecting said outgoing call to a destination phone and connecting said call if said destination **phone** is not busy, else providing a busy signal and disconnecting said outgoing call, connecting said call including, if the destination phone is picked up, converting voice signals to a packet with an ID value as a source address, the ID value being the first ID value if the outgoing call originates from the first phone and being the second ID value if the outgoing call originates from the first computer ~~sending a request for connection packet with an address for said LTW as the destination address,~~

20 d) detecting an incoming call and connecting said call if a receiving device comprising said first phone and said first computer is not busy, else sending back said busy signal and disconnecting said incoming call,

25 e) disconnecting phone calls or computer calls when a phone hang up or a computer disconnect signal is detected and returning to monitoring said network for said incoming call.

7. (Previously Presented) The method of claim 6 wherein, within step c) connecting said call further includes, if said outgoing call is not an outside call, sending a request for connection packet addressed to the second VDM and not the
30 ~~detecting, connecting and disconnecting a call is done with packets that carry communication between said first and second VDM, and between said first VDM and said LTW.~~

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

8. (Original) The method of claim 6 wherein, communicating between computers ~~is done directly in~~ according to Token in Ethernet protocol eliminating the need for any conversion.

9. (Original) The method of claim 6 wherein, connecting a long distance phone call is done through said ISP without the use of a computer to assist in the call.

10. (Previously Presented) The method of claim 6 further including, detecting a request from said first computer for a connection to an Internet service provider (ISP), sending request for the connection to said LTW and completing connection to said ISP when the LTW responds with a connection completed signal.

11. (Currently Amended) The voice and data network of claim 1, wherein:
~~at least one VDM device is connected to the telephone wires by a connector originally used to provide a connection for a phone device~~ the voice and data network is organized into at least two VDM locations, each VDM location including a VDM device having a first network address, a first connection for a device that is assigned a second network address, and a second connection for a device that is assigned a third network address, the first, second and third network addresses being different from one another.

12. (Currently Amended) The voice and data network of claim ~~11~~, wherein:
~~each of the plurality of each VDM modules device is connected to~~ has a telephone by the first connection and connected to a computer by the second connection connected thereto, each telephone and computer having a unique address with respect to all other telephones and computers connected to VDM modules.

13. (Currently Amended) The method of claim 6, wherein:
step e) further includes ~~sending a hang up packet to queue~~, if a hang up is detected from the first phone and an LTW hang up packet from the LTW ~~in~~

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

~~response to an outside phone~~ has not been detected, sending a VDM hang up packet to queue, the VDM hang up packet having an address of the LTW as a destination address.

5 14. (Previously Presented) The method of claim 6, wherein:
step c) further includes sending a packet with a no line available indication from the LTW if an outside line connected to the LTW is not available.

10 15. **(Canceled)** The method of claim 6, wherein:
step c) further includes if said outgoing call is not an outside call, sending a request for connection packet to the second VDM .

15 16. (Previously Presented) The method of claim 6, wherein:
step d) further includes the LTW requesting an outside call to provide extension data for an incoming call, and if an extension number is not received, storing a predefined port address as a destination address in request for connection packet.

20